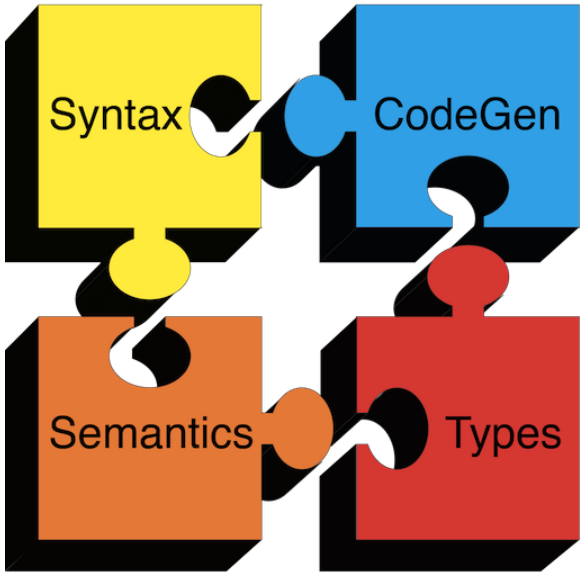

Compilers

Java

Java

- Java: COOL on steroids
  - History
- Arrays
- Exceptions
- Interfaces
- Coercions
- Threads
- Dynamic Loading & Initialization
- Summary

Java

- Began as Oak at SUN
  - Originally targeted at set-top devices
  - Initial development took several years (`91-`94)

- Retargeted as the Internet language (`94-95)
  - Every new language needs a “killer app”
  - Alernatives such as TCL, Python

Java

- Modula-3
  - types
- Eiffel, Objective C, C++
  - Object orientation, interfaces
- Lisp
  - Java's dynamic flavor (lots of features)

Java

- From our perspective, COOL plus
  - Exceptions
  - Interfaces
  - Threads
  - Dynamic Loading
  - Other less important ones . . .

- Java is a BIG language
  - Lots of features
  - Lots of feature interactions